What is claimed:

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- 1. A cable assembly for an electrosurgical pencil comprising a power and signal transmitting multiple-core cable with an attachment plug, in which the power transmitting core has more conductors and thicker insulation than two signal transmitting cores, said attachment plug having either plastic plug-pins with spring-steel strips, or metal plug-pins with recesses on a plug body near the plug-pins to provide flexibility in mating with a socket.
- 10 2. A cable assembly as in Claim 1, wherein two signal transmitting cores have a reduced diameter in comparison to said power transmitting core.
 - 3. A cable assembly as in Claim 1, wherein said attachment plug further comprises a plastic outer mould and an inner mould to prevent three cores from contact with each other.
 - 4. A cable assembly as in Claim 3, wherein said inner mould has gutters for embedding said three cores.
- 20 5. A cable assembly as in Claim 1, wherein said recess is a notch cut on a ridge of the plug body near the plug-pin.
 - 6. A cable assembly as in Claim 1, wherein said attachment plug further comprises a plastic outer mould having a two-piece construction without an inner mould and employs constructional spacers and barriers to prevent three cores from contacting each other.
 - 7. A cable assembly as in Claim 1, wherein the number of conductors in each signal transmitting core is 4.

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- 8. In combination:
 - an electrosurgical pencil; and

a cable assembly for said electrosurgical pencil comprising a power and signal transmitting multiple-core cable with an attachment plug, in which the power transmitting core has more conductors and thicker insulation than two signal transmitting cores, said attachment plug having a pair of plastic plug-pins each with a spring-steel strip to provide flexibility in mating with a socket.

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- 9. A combination as in Claim 8, wherein two signal transmitting cores have a reduced diameter in comparison to said power transmitting core.
- 10. A combination as in Claim 8, wherein said attachment plug further10 comprising a plastic outer mould and an inner mould to prevent three cores from contact with each other.
 - 11. A combination as in Claim 10, wherein said inner mould has gutters for embedding said three cores.

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- 12. A combination as in Claim 8, wherein said recess is a simple notch cut on the ridge of the plug body near the plug-pin.
- 13. A combination as in Claim 8, wherein the number of conductors in each20 signal transmitting core is 4.
 - 14. In combination:

an electrosurgical pencil; and

a cable assembly for an electrosurgical pencil comprising a power and signal transmitting multiple-core cable with an attachment plug, in which the power transmitting core has more conductors and thicker insulation than two signal transmitting cores, said attachment plug having metal plug-pins with recesses on a plug body near the plug-pins to provide flexibility in mating with a socket.

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15. A combination as in Claim 14, wherein two signal transmitting cores have a reduced diameter in comparison to said power transmitting core.

- 16. A combination as in Claim 14, wherein said attachment plug further comprising a plastic outer mould and an inner mould to prevent three cores from contact with each other.
- 5 17. A combination as in Claim 16, wherein said inner mould has gutters for embedding said three cores.
 - 18. A combination as in Claim 14, wherein a said recess is a notch cut on the ridge of the plug body near the plug-pin.
- 19. A combination as in Claim 14, wherein said attachment plug further comprises a plastic outer mould having a two-piece construction without an inner mould and employs constructional spacers and barriers to prevent three cores from contacting each other.
 - 20. A combination as in Claim 14, wherein the number of conductors in each signal transmitting core is 4.

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